

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Currently Amended) The image forming apparatus according to claim 5 ~~[[1]]~~, wherein the ~~medial design~~ value of the diameter R' of said elastic roller is determined to be $\{(R1+R2)/2\}$ ~~about mid-value between said first and second diameter.~~
3. (Currently Amended) The image forming apparatus according to claim ~~[[1]]~~ 5 or 2, wherein said elastic roller is a roller having rubber of hardness of JIS-A Hs65 to 90, preferably Hs70 to 80 wound around the periphery thereof.
4. (Currently Amended) The image forming apparatus according to claim 5 ~~[[1]]~~, wherein when ~~said first diameter is 1.005 times the diameter of the elastic roller before correction and said second diameter is 1.012 times the diameter of the elastic roller before correction when the elastic roller is depressed by 0.5% of it's the diameter R'~~ by the pressing of the elastic roller against the rigid roller, said R1 is 1.005 times the diameter R of the elastic roller and said diameter R2 is 1.012 times the diameter R of the elastic roller.
5. (New) An image forming apparatus comprising:
a pair of rollers consisting of a rigid roller which is a metal roller or a roller with resin material wound on the periphery thereof and diameter of which is defined as G, and an elastic roller having rubber of hardness of JIS-A Hs65 to 90 wound around the periphery thereof to be depressed with the rigid roller and diameter of which after depression is defined as R;

a group of gears which is connected to the pair of rollers and has a gear ratio defined as B/A , which is composed so that the peripheral velocities of each of the pair of rollers are approximately equal to each other, such that $(B/A) \times (G/R) \doteq 1$; and

a roller system for transferring a copy sheet by pinching the copy sheet between the pair of rollers by pressing the pair of rollers, with each of the pair of rollers being rotated with approximately the same peripheral velocity by the gear mechanism;

wherein the diameter R' of said elastic roller before depression, from which R is calculated with a reduction rate Q due to the depression by the rigid roller, is set in the range of $R1 < R' < R2$;

wherein $R1$ is a criterial value of a virtual maximum diameter of the elastic roller calculated such that the peripheral velocity of the elastic roller at the part depressed due to the pressing of the elastic roller against the rigid roller coincides with the peripheral velocity of the rigid roller, such that $R1 = \{(B/A) \times (G)\} / Q$; and

wherein $R2$ is a criterial value of a virtual minimum diameter of the elastic roller calculated such that the peripheral velocity of the elastic roller at the part depressed due to the pressing of the elastic roller against the rigid roller with increased diameter defined as $G+P$, where P is the thickness of the copy sheet, such that $R2 = \{(B/A) \times (G+P)\} / Q$.